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6. A method of operating a radio receiver, comprising:

    multiplying a received signal by a sequence of generated pulses to produce a multiplication output;  
    providing the multiplication output to a circuit, wherein the circuit is for operating in a first mode to act as a low pass filter, and for operating in a second mode to act as an integrator;  
    wherein said circuit operates in said first mode before the receiver is synchronized to the received signal, and operates in the second mode after the receiver is synchronized to the received signal.

~~✓~~ 7. A method of operating a radio receiver, comprising:

    multiplying a received signal by a sequence of generated pulses to produce a multiplication output;  
    providing the multiplication output to a circuit, wherein the circuit is for operating in a first mode to act as a low pass filter, and for operating in a second mode to act as an integrator;  
    detecting when the receiver has synchronized to the received signal;  
    operating said circuit in said first mode before the receiver is synchronized to the received signal;  
    operating said circuit in said second mode after the receiver is synchronized to the received pulse.

